

CLAIMS

1. An amplifier circuit comprising a signal input connection, a power amplifier which amplifies a signal coupled in by way of the signal input connection, a passive frequency divider which divides the signal amplified by the power amplifier into at least two channels, and at least two electroacoustic transducers or at least two output connections for electroacoustic transducers which are each connected to a respective channel made available by the frequency divider, wherein a passive negative feedback is provided between at least one output of the frequency divider and the input of the power amplifier.

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2. An amplifier circuit according to claim 1 wherein the power amplifier is in the form of a differential amplifier and the signal input connection is connected to the first input of the differential amplifier and at least one channel made available by the frequency divider and preferably all channels are connected by way of a respective ohmic resistor to the second input of the differential amplifier.

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3. An amplifier circuit according to claim 2 wherein the resistance values by way of which the channels made available by the frequency divider are connected to the second input of the differential amplifier are different.

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4. An amplifier circuit according to claim 2 wherein the second input of the differential amplifier is connected to earth by way of an ohmic resistor.

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5. An amplifier circuit according to claim 3 wherein the second input of the differential amplifier is connected to earth by way of an ohmic resistor.

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6. A loudspeaker box comprising at least two electroacoustic transducers and an amplifier circuit, wherein said amplifier circuit comprises a signal input connection, a power amplifier which amplifies a signal coupled in by way of the signal input connection, a passive frequency divider which divides the signal amplified by the power amplifier into at least two channels, and

at least two electroacoustic transducers or at least two output connections for electroacoustic transducers which are each connected to a respective channel made available by the frequency divider, wherein a passive negative feedback is provided between at least one output of the frequency divider and the input of the power amplifier.

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7. A loudspeaker box according to claim 1 wherein the power amplifier is in the form of a differential amplifier and the signal input connection is connected to the first input of the differential amplifier and at least one channel made available by the frequency divider and preferably all channels are connected by way of a respective ohmic resistor to the second input of the differential amplifier.

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8. A loudspeaker box according to claim 7 wherein the resistance values by way of which the channels made available by the frequency divider are connected to the second input of the differential amplifier are different.

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9. A loudspeaker box according to claim 7 wherein the second input of the differential amplifier is connected to earth by way of an ohmic resistor.

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10. A loudspeaker box according to claim 8 wherein the second input of the differential amplifier is connected to earth by way of an ohmic resistor.